

For Research Use Only

# IPO4 Polyclonal antibody

Catalog Number: 11679-1-AP

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 11679-1-AP	<b>GenBank Accession Number:</b> BC003690	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 79711	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> importin 4	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 1081 aa, 118 kDa	
<b>Immunogen Catalog Number:</b> AG2281	<b>Observed MW:</b> 118 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, human brain tissue IP : mouse testis tissue, IHC : human stomach cancer tissue, IF : HepG2 cells,
<b>Cited Applications:</b> CoIP, IHC, IP, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Importin-4 (IPO4) belongs to the importin  $\beta$  family which directs the cargo to pass through the nuclear pore complex via transient interaction with nucleoporins. IPO4 is responsible for transporting histones H3 and H4 into the nucleus for chromatin assembly. Recently IPO4 has been reported to contribute to gastric cancer progression and poor prognosis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Echeverría Pablo C PC	22022502	PLoS One	WB
Ruona Shi	34774773	Genomics Proteomics Bioinformatics	WB
Pengpeng Xu	28254634	Gene	WB

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

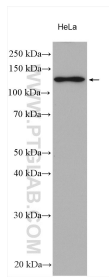
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

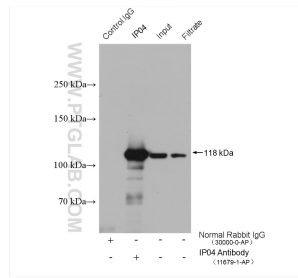
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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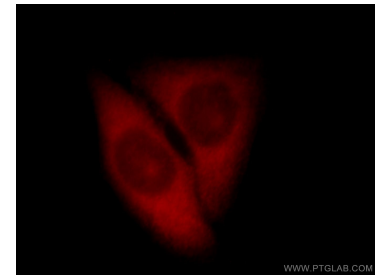
## Selected Validation Data



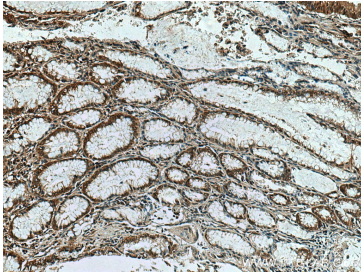
HeLa cell lysates were subjected to SDS PAGE followed by western blot with 11679-1-AP (IPO4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



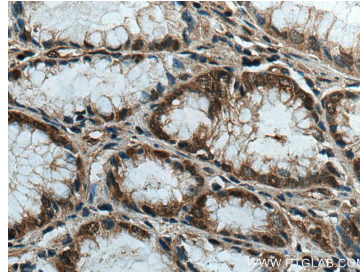
IP result of anti-IPO4 (IP:11679-1-AP, 4 $\mu$ g; Detection:11679-1-AP 1:2000) with mouse testis tissue lysate 4000  $\mu$ g.



Immunofluorescent analysis of HepG2 cells, using IPO4 antibody 11679-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 11679-1-AP (IPO4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 11679-1-AP (IPO4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).